10563207

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LOGINID:ssspta1612bxr

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	NOV 21	CAS patent coverage to include exemplified prophetic substances identified in English-, French-, German-, and Japanese-language basic patents from 2004-present
NEWS 3	NOV 26	MARPAT enhanced with FSORT command
NEWS 4	NOV 26	CHEMSAFE now available on STN Easy
NEWS 5	NOV 26	Two new SET commands increase convenience of STN searching
NEWS 6	DEC 01	ChemPort single article sales feature unavailable
NEWS 7	DEC 12	GBFULL now offers single source for full-text coverage of complete UK patent families
NEWS 8	DEC 17	Fifty-one pharmaceutical ingredients added to PS
NEWS 9	JAN 06	The retention policy for unread STNmail messages will change in 2009 for STN-Columbus and STN-Tokyo
NEWS 10	JAN 07	WPIDS, WPINDEX, and WPIX enhanced Japanese Patent Classification Data
NEWS 11	FEB 02	Simultaneous left and right truncation (SLART) added for CERAB, COMPUAB, ELCOM, and SOLIDSTATE
NEWS 12	FEB 02	GENBANK enhanced with SET PLURALS and SET SPELLING
NEWS 13	FEB 06	Patent sequence location (PSL) data added to USGENE
NEWS 14	FEB 10	COMPENDEX reloaded and enhanced
NEWS 15	FEB 11	WTEXTILES reloaded and enhanced
NEWS 16	FEB 19	New patent-examiner citations in 300,000 CA/CAplus patent records provide insights into related prior art
NEWS 17	FEB 19	Increase the precision of your patent queries -- use terms from the IPC Thesaurus, Version 2009.01
NEWS 18	FEB 23	Several formats for image display and print options discontinued in USPATFULL and USPAT2
NEWS 19	FEB 23	MEDLINE now offers more precise author group fields and 2009 MeSH terms
NEWS 20	FEB 23	TOXCENTER updates mirror those of MEDLINE - more precise author group fields and 2009 MeSH terms
NEWS 21	FEB 23	Three million new patent records blast AEROSPACE into STN patent clusters
NEWS 22	FEB 25	USGENE enhanced with patent family and legal status display data from INPADOCDB
NEWS 23	MAR 06	INPADOCDB and INPAFAMDB enhanced with new display formats
NEWS 24	MAR 11	EPFULL backfile enhanced with additional full-text applications and grants

Updated Search

10563207

NEWS 25 MAR 11 ESBIOBASE reloaded and enhanced

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 21:12:57 ON 12 MAR 2009

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.22	0.22

FILE 'REGISTRY' ENTERED AT 21:13:04 ON 12 MAR 2009
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STRUCTURE FILE UPDATES: 11 MAR 2009 HIGHEST RN 1119363-64-2
DICTIONARY FILE UPDATES: 11 MAR 2009 HIGHEST RN 1119363-64-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

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http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Documents and Settings\brobinson1\My Documents\awr.str

L1 STRUCTURE UPLOADED

Updated Search

10563207

```
=> s l1
SAMPLE SEARCH INITIATED 21:13:34 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -       40 TO ITERATE

100.0% PROCESSED       40 ITERATIONS                                12 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          421 TO     1179
PROJECTED ANSWERS:              33 TO      447

L2           12 SEA SSS SAM L1

=> s l1 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 185.40 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 21:13:45 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      693 TO ITERATE

100.0% PROCESSED      693 ITERATIONS                            201 ANSWERS
SEARCH TIME: 00.00.01

L3          201 SEA SSS FUL L1

=> file hcaplus
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                185.88     186.10

FILE 'HCAPLUS' ENTERED AT 21:13:48 ON 12 MAR 2009
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FILE COVERS 1907 - 12 Mar 2009  VOL 150 ISS 11
FILE LAST UPDATED: 11 Mar 2009  (20090311/ED)

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```

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10563207

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=> file reg
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                         ENTRY   SESSION
FULL ESTIMATED COST   2.85   188.95

FILE 'REGISTRY' ENTERED AT 21:14:02 ON 12 MAR 2009
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DICTIONARY FILE UPDATES: 11 MAR 2009 HIGHEST RN 1119363-64-2

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http://www.cas.org/support/stngen/stndoc/properties.html

=>
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L4   STRUCTURE UPLOADED

=> s l4
SAMPLE SEARCH INITIATED 21:15:04 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   28 TO ITERATE

100.0% PROCESSED   28 ITERATIONS   0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS: 243 TO   877
PROJECTED ANSWERS: 0 TO   0

L5   0 SEA SSS SAM L4

=> s l4 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 185.40 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

Updated Search

10563207

FULL SEARCH INITIATED 21:15:08 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 449 TO ITERATE

100.0% PROCESSED 449 ITERATIONS 8 ANSWERS
SEARCH TIME: 00.00.01

L6 8 SEA SSS FUL L4

=> file hcaplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 186.36 375.31

FILE 'HCAPLUS' ENTERED AT 21:15:11 ON 12 MAR 2009
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=> s l6/rct
13 L6
3232764 RCT/RL
L7 3 L6/RCT
(L6 (L) RCT/RL)

=> d his

(FILE 'HOME' ENTERED AT 21:12:57 ON 12 MAR 2009)

FILE 'REGISTRY' ENTERED AT 21:13:04 ON 12 MAR 2009
L1 STRUCTURE UPLOADED
L2 12 S L1
L3 201 S L1 FULL

Updated Search

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FILE 'HCAPLUS' ENTERED AT 21:13:48 ON 12 MAR 2009

FILE 'REGISTRY' ENTERED AT 21:14:02 ON 12 MAR 2009
L4 STRUCTURE UPLOADED
L5 0 S L4
L6 8 S L4 FULL

FILE 'HCAPLUS' ENTERED AT 21:15:11 ON 12 MAR 2009
L7 3 S L6/RCT

=> s l3
L8 2418 L3

=> s l8 and l7
L9 0 L8 AND L7

=> s l3 and l7
2418 L3
L10 0 L3 AND L7

=> file reg
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 5.70 381.01

FILE 'REGISTRY' ENTERED AT 21:16:11 ON 12 MAR 2009

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=>
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L11 STRUCTURE UPLOADED

Updated Search

10563207

```
=> s l11 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 185.40 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 21:21:12 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    51805 TO ITERATE

100.0% PROCESSED    51805 ITERATIONS                                85 ANSWERS
SEARCH TIME: 00.00.01

L12          85 SEA SSS FUL L11

=> file hcaplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   189.24     570.25

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FILE LAST UPDATED: 11 Mar 2009  (20090311/ED)

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=> s l12/prep
           126 L12
       4736176 PREP/RL
L13         57 L12/PREP
                 (L12 (L) PREP/RL)

=> d his

     (FILE 'HOME' ENTERED AT 21:12:57 ON 12 MAR 2009)

     FILE 'REGISTRY' ENTERED AT 21:13:04 ON 12 MAR 2009
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Updated Search

10563207

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L1              STRUCTURE UPLOADED
L2           12 S L1
L3          201 S L1 FULL

     FILE 'HCAPLUS' ENTERED AT 21:13:48 ON 12 MAR 2009

     FILE 'REGISTRY' ENTERED AT 21:14:02 ON 12 MAR 2009
L4              STRUCTURE UPLOADED
L5            0 S L4
L6            8 S L4 FULL

     FILE 'HCAPLUS' ENTERED AT 21:15:11 ON 12 MAR 2009
L7            3 S L6/RCT
L8         2418 S L3
L9            0 S L8 AND L7
L10           0 S L3 AND L7

     FILE 'REGISTRY' ENTERED AT 21:16:11 ON 12 MAR 2009
L11             STRUCTURE UPLOADED
L12          85 S L11 FULL

     FILE 'HCAPLUS' ENTERED AT 21:21:16 ON 12 MAR 2009
L13          57 S L12/PREP

=> s l13 and l7
L14          0 L13 AND L7

=> s l3 and l13
          2418 L3
L15          0 L3 AND L13

=> file reg
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                   5.70     575.95

FILE 'REGISTRY' ENTERED AT 21:22:19 ON 12 MAR 2009
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  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
```

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experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
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L16     STRUCTURE UPLOADED

=> s l16
SAMPLE SEARCH INITIATED 21:24:16 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -        9 TO ITERATE

100.0% PROCESSED        9 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:            9 TO      360
PROJECTED ANSWERS:               0 TO        0

L17           0 SEA SSS SAM L16

=> s l16 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 185.40 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 21:24:19 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      187 TO ITERATE

100.0% PROCESSED      187 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

L18           0 SEA SSS FUL L16

=>
Uploading C:\Documents and Settings\brobinson1\My Documents\aretat.str

L19     STRUCTURE UPLOADED

=> s l19
SAMPLE SEARCH INITIATED 21:28:01 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      111 TO ITERATE

100.0% PROCESSED      111 ITERATIONS                               16 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         1588 TO     2852
PROJECTED ANSWERS:              80 TO      560

L20          16 SEA SSS SAM L19

=> s l19 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 185.40 U.S. DOLLARS
```

10563207

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 21:28:05 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 2172 TO ITERATE

100.0% PROCESSED 2172 ITERATIONS 267 ANSWERS
SEARCH TIME: 00.00.01

L21 267 SEA SSS FUL L19

=> file hcaplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 375.60 951.55

FILE 'HCAPLUS' ENTERED AT 21:28:08 ON 12 MAR 2009
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FILE COVERS 1907 - 12 Mar 2009 VOL 150 ISS 11
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=> s l21/rct
280 L21
3232764 RCT/RL
L22 119 L21/RCT
(L21 (L) RCT/RL)

=> s l21/prep
280 L21
4736176 PREP/RL
L23 190 L21/PREP
(L21 (L) PREP/RL)

=> s l23 and l22

Updated Search

10563207

```
L24         64 L23 AND L22

=> s l24 and saponif?
         19164 SAPONIF?
         55927 SAPON
            92 SAPONS
         55973 SAPON
                 (SAPON OR SAPONS)
         29762 SAPOND
             1 SAPONDS
         29763 SAPOND
                 (SAPOND OR SAPONDS)
          3227 SAPONG
         90651 SAPONIF?
                 (SAPONIF? OR SAPON OR SAPOND OR SAPONG)
L25          9 L24 AND SAPONIF?

=> s l25 and oxidiz?
        448349 OXIDIZ?
L26          0 L25 AND OXIDIZ?

=> s l26 and levy, m?/au
          2253 LEVY, M?/AU
L27          0 L26 AND LEVY, M?/AU

=> d l25, ibib abs hitstr, 1-9

L25  ANSWER 1 OF 9  HCAPLUS  COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER:         2003:777757  HCAPLUS
DOCUMENT NUMBER:          139:292146
TITLE:                    Preparation of (benzyloxy)phthalimides as inhibitors
                          of monoamine oxidase B
INVENTOR(S):              Cesura, Andrea; Rodriguez Sarmiento, Rosa Maria;
                          Thomas, Andrew William; Wyler, Rene
PATENT ASSIGNEE(S):       F. Hoffmann-La Roche A.-G., Switz.
SOURCE:                   PCT Int. Appl., 42 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.           KIND   DATE        APPLICATION NO.         DATE
     ---------------      ----   --------    --------------------    --------
     WO 2003080573         A1    20031002    WO 2003-EP2931          20030320
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA,
             UG, UZ, VN, YU, ZA, ZM, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
             FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     US 20030195208        A1    20031016    US 2003-387950          20030313
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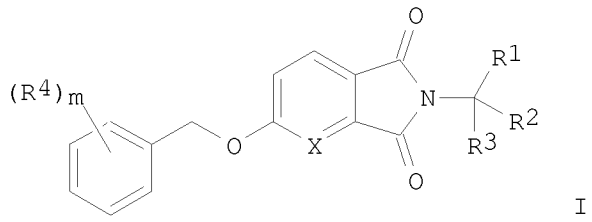
Updated Search

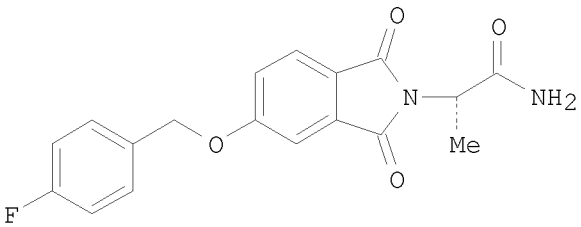
US 6660736	B2	20031209			
CA 2477771	A1	20031002	CA 2003-2477771		20030320
AU 2003226680	A1	20031008	AU 2003-226680		20030320
EP 1490334	A1	20041229	EP 2003-744825		20030320
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK					
BR 2003008786	A	20050111	BR 2003-8786		20030320
CN 1642911	A	20050720	CN 2003-807096		20030320
CN 1277820	C	20061004			
JP 2005526796	T	20050908	JP 2003-578328		20030320
JP 4202270	B2	20081224			
RU 2317289	C2	20080220	RU 2004-131651		20030320
US 20040229871	A1	20041118	US 2003-657857		20030909
US 6903095	B2	20050607			
MX 2004009335	A	20050125	MX 2004-9335		20040924
PRIORITY APPLN. INFO.:			EP 2002-7222	A	20020327
			US 2003-387950	A3	20030313
			WO 2003-EP2931	W	20030320

OTHER SOURCE(S): MARPAT 139:292146

GI



I



II

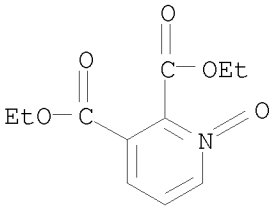
AB Title compds. I [wherein X = N or CH; R1 = CONR5R6, CHR7(CH2)nCONR5R6, (CH2)nNR5R6, (CH2)nCO2R8, (CH2)nCN, CHR7(CH2)nCF3, (CH2)nNHCOR9, (CH2)nNHCO2R9, (CH2)pOR8, (CH2)pSR8, (CH2)pSOR9, (CH2)nCSNR5R6, or (un)substituted (CH2)n-piperidinyl, (CH2)n-morpholinyl, (CH2)n-tetrahydrofuranyl, (CH2)n-thiophenyl, (CH2)n-isoxazolyl, (CH2)n-Ph; R2 = H, alkyl, (CH2)pOR10, (CH2)pSR10, or CH2Ph; R3, R5, R6, R8, and R10 = independently H or alkyl; R4 = H, haloalkyl, CN, or (halo)alkoxy; R7 = H, OH, or alkoxy; R9 = alkyl; m = 1-3; n = 0-2; p = 1-2; and pharmaceutically acceptable salts thereof] were prepared as highly selective monoamine oxidase B (MAO-B) inhibitors. For example, reaction of 4-hydroxyphthalic acid with 4-fluorobenzyl bromide in the presence of K2CO3 in acetone and

H2O gave 4-(4-fluorobenzyloxy)phthalic acid bis(4-fluorobenzyl)ester (80%). Sapon. with LiOH•H2O in THF afforded the acid (56%). Cyclocondensation with alaninamide•HCl using carbonyldiimidazole in 1-methyl-2-pyrrolidinone provided the title isoindole II (49%). The latter preferentially inhibited the enzymic activity of human MAO-B over human MAO-A with IC50 values of 0.008 μM and 0.776 μM, resp. Thus, I and their pharmaceutical compns. are useful for the treatment of diseases mediated by MAO-B, such as Alzheimer's disease and senile dementia (no data).

IT 114526-80-6P, 1-Oxopyridine-2,3-dicarboxylic acid diethyl ester
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of (benzyloxy)phthalimide MAO-B selective inhibitor by cyclocondensation of phthalic acids and amino acids or amines for treatment of Alzheimer's disease and dementia)

RN 114526-80-6 HCAPLUS

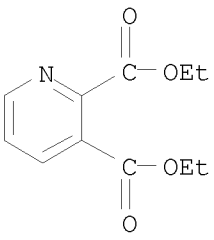
CN 2,3-Pyridinedicarboxylic acid, 2,3-diethyl ester, 1-oxide (CA INDEX NAME)



IT 2050-22-8, Diethyl 2,3-pyridinedicarboxylate
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of (benzyloxy)phthalimide MAO-B selective inhibitor by cyclocondensation of phthalic acids and amino acids or amines for treatment of Alzheimer's disease and dementia)

RN 2050-22-8 HCAPLUS

CN 2,3-Pyridinedicarboxylic acid, 2,3-diethyl ester (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 2 OF 9 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1997:436082 HCAPLUS
DOCUMENT NUMBER: 127:50632
ORIGINAL REFERENCE NO.: 127:9661a,9664a
TITLE: Preparation of cyclic amic acid derivatives as inhibitors of protein-farnesyl transferase and

10563207

antitumor agents

INVENTOR(S): Iwasawa, Yoshikazu; Aoyama, Tetsuya; Kawakami, Kumiko; Arai, Sachie; Satoh, Toshihiko; Monden, Yoshiaki

PATENT ASSIGNEE(S): Banyu Pharmaceuticals Co., Ltd., Japan

SOURCE: PCT Int. Appl., 100 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9717321	A1	19970515	WO 1996-JP3239	19961106
W: AU, CA, CN, JP, KR, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9675051	A	19970529	AU 1996-75051	19961106
PRIORITY APPLN. INFO.:			JP 1995-313625 A	19951107
			WO 1996-JP3239 W	19961106

OTHER SOURCE(S): MARPAT 127:50632

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

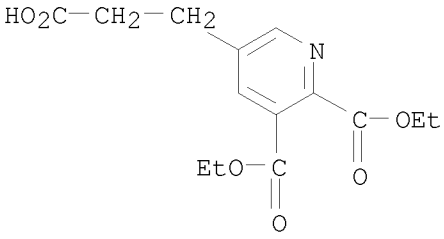
AB Compds. of general formula [I; wherein Ar1, Ar2 and Ar3 = aryl or heteroaryl; Cy = aryl, heteroaryl, alicyclic; Q = (CH2)m (m = an integer of 1 to 6) or (CH2)n-W-(CH2)p (W = oxygen, sulfur, vinylene or ethynylene; n, p = an integer of 0 to 3); R1 = H, halo, OH, (un)substituted lower alkyl or alkoxy; R2, R7, R8 = H, halo, OH, lower alkyl or alkoxy; R3, R4 = H, halo, OH, NH2, NO2, cyano, CO2H, lower alkoxycarbonyl, CONH2, lower alkylcarbamoyl, lower alkyl, hydroxyalkyl, fluoroalkyl, or alkoxy; R5 = lower alkyl; R6 = H, lower alkyl; R9, R10 = H, OH, lower alkyl; R11 = OH, CO2H, lower alkyl, hydroxyalkyl, or alkoxy; p, n = an integer of 0 to 2; m = 0 or 1] or pharmaceutically acceptable salts and esters thereof are prepared An antitumor agent containing I as the active ingredient is claimed. Thus, a 5-carbamoyl-1,3-dioxolane-2,2,4-tricarboxylic acid derivative (II; R = CHO, R12 = Me, R13 = Et) (preparation given) underwent Wittig reaction with 2-benzoxazolylmethyltriphenylphosphonium chloride using NaH in THF followed by sapon. with LiOH in aqueous THF and acidification with 1 N aqueous HCl to give II (R = Q, R12 = R13 = H). The latter compound in vitro showed IC50 of 0.1 nM for inhibiting protein-farnesyl transferase and 3.6 nM for inhibiting the farnesylation of Ras protein in activated ras gene-transformed NIH3T3 cells and in vivo inhibited the proliferation of activated human Ha-ras-transformed cells (NIH/ras) transplanted in mice by 23, 41, and 82% at 20, 40, and 80 mg/kg i.p.

IT 191088-50-3P 191088-51-4P 191088-52-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of cyclic amic acid derivs. as inhibitors of protein-farnesyl transferase and antitumor agents)

RN 191088-50-3 HCAPLUS

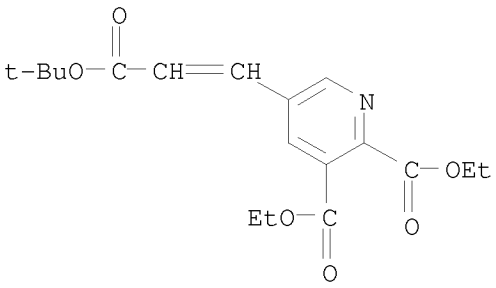
CN 2,3-Pyridinedicarboxylic acid, 5-(2-carboxyethyl)-, 2,3-diethyl ester, hydrochloride (1:1) (CA INDEX NAME)

Updated Search

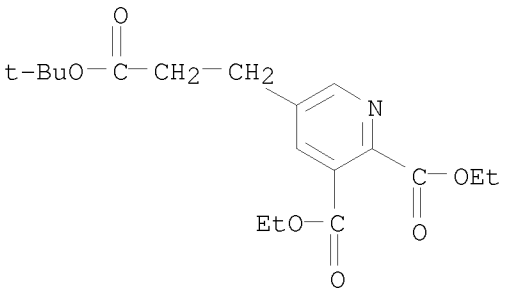


● HCl

RN 191088-51-4 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 5-[3-(1,1-dimethylethoxy)-3-oxo-1-propen-1-yl]-, 2,3-diethyl ester (CA INDEX NAME)



RN 191088-52-5 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 5-[3-(1,1-dimethylethoxy)-3-oxopropyl]-, 2,3-diethyl ester (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1994:457528 HCAPLUS
DOCUMENT NUMBER: 121:57528

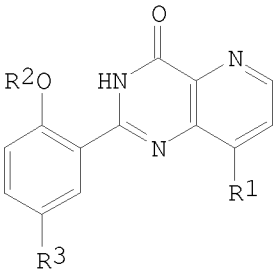
Updated Search

10563207

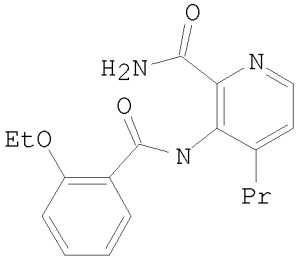
ORIGINAL REFERENCE NO.: 121:10380h,10381a
TITLE: Preparation of pyridopyrimidinones as cGMP phosphodiesterase inhibitors
INVENTOR(S): Bell, Andrew Simon; Terrett, Nicholas Kenneth
PATENT ASSIGNEE(S): Pfizer Ltd., UK; Pfizer Inc.; Pfizer Research and Development Co., N.V./S.A.
SOURCE: PCT Int. Appl., 46 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9405661	A1	19940317	WO 1993-EP2097	19930804
W: CA, FI, JP, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 656898	A1	19950614	EP 1993-917761	19930804
EP 656898	B1	19970122		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
JP 07506838	T	19950727	JP 1993-506786	19930804
AT 148118	T	19970215	AT 1993-917761	19930804
ES 2096936	T3	19970316	ES 1993-917761	19930804
CA 2138298	C	19980414	CA 1993-2138298	19930804
US 5591742	A	19970107	US 1995-379531	19950131
FI 9500889	A	19950227	FI 1995-889	19950227
FI 112484	B1	20031215		

PRIORITY APPLN. INFO.: GB 1992-18322 A 19920828
WO 1993-EP2097 W 19930804
OTHER SOURCE(S): MARPAT 121:57528
GI



I



II

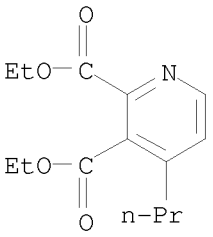
AB Title compds. [I; R1 = H, alkyl, cyano, CONR4R5; R2 = alkyl; R3 = SO2NR6R7, NO2, NH2, NHCOR8, NHSO2R8, N(SO2R8)2; R4,R5 = H, alkyl; R6,R7 = H, (substituted)alkyl; NR6R7 = pyrrolidino, piperidino, morpholino, etc.; R8 = alkyl, pyridyl] were prepared Thus, EtO2CCHClCOCO2Et was cyclocondensed with PrCH:CHCHO and H2NSO3NH4 and the product converted in 5 steps to aminonicotinamide II which was cyclized to give I (R1 = Pr, R2 = Et)(III; R3 = H). The latter was sulfonated with ClSO3H and the product

Updated Search

condensed with Et isonipecotate to give, after sapon., III (R3 = 4-carboxypiperidinosulfonyl) which had IC50 of 1.2nM against cGMP phosphodiesterase in vitro.

IT 155879-79-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, in preparation of cGMP phosphodiesterase inhibitor)

RN 155879-79-1 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 4-propyl-, 2,3-diethyl ester (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

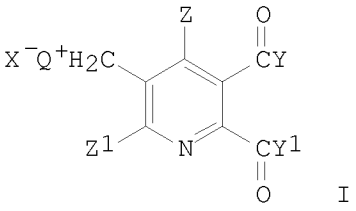
L25 ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1994:270130 HCAPLUS
DOCUMENT NUMBER: 120:270130
ORIGINAL REFERENCE NO.: 120:47851a,47854a
TITLE: 5,6-disubstituted-3-pyridylmethylammonium halide compounds useful for the preparation of 5-(substituted methyl)-2,3-pyridinedicarboxylic acids
INVENTOR(S): Strong, Henry L.
PATENT ASSIGNEE(S): American Cyanamid Co., USA
SOURCE: U.S., 10 pp. Cont.-in-part of U.S. Ser. No. 812,520, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5288866	A	19940222	US 1992-960749	19921014
AT 151752	T	19970515	AT 1992-119537	19921116
ES 2100261	T3	19970616	ES 1992-119537	19921116
SK 280466	B6	20000214	SK 1992-3665	19921215
SK 280477	B6	20000214	SK 1998-1400	19921215
CZ 286513	B6	20000517	CZ 1992-3665	19921215
JP 05255257	A	19931005	JP 1992-353923	19921216
JP 3107672	B2	20001113		
IL 104134	A	19970610	IL 1992-104134	19921217
CA 2085802	A1	19930621	CA 1992-2085802	19921218
CA 2085802	C	20030916		

BR 9205097	A	19930622	BR 1992-5097		19921218
AU 9230280	A	19930624	AU 1992-30280		19921218
AU 652874	B2	19940908			
ZA 9209877	A	19930702	ZA 1992-9877		19921218
HU 64052	A2	19931129	HU 1992-4021		19921218
HU 217563	B	20000228			
HU 218004	B	20000528	HU 1996-2838		19921218
CN 1094398	A	19941102	CN 1993-105332		19930430
CN 1042333	C	19990303			
RU 2090558	C1	19970920	RU 1993-5302		19930511
US 5378843	A	19950103	US 1993-156205		19931122
US 5545835	A	19960813	US 1994-334297		19941104
CZ 286519	B6	20000517	CZ 1997-1082		19970409
CN 1190094	A	19980812	CN 1998-103644		19980113
CN 1067379	C	20010620			
PRIORITY APPLN. INFO.:			US 1991-812520	B2	19911220
			US 1992-960749	A	19921014
			CS 1992-3665	A	19921215
			HU 1992-4021	A	19921218
			US 1993-156205	A3	19931122

OTHER SOURCE(S): CASREACT 120:270130; MARPAT 120:270130

GI



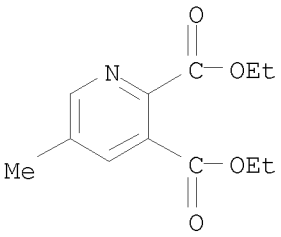
I

AB A method for the preparation of 5,6-disubstituted-3-pyridylmethylammonium halide compds. I (Z = H, halo; Z1 = H, halo, cyano, nitro; X = Cl, Br, iodo, alkylsulfonyl; Y and Y1 = alkoxy, amino; Q = cyclic or hydrocarbyl ammonium) is provided. I can be used for the preparation of 5-(substituted methyl)-2,3-pyridinedicarboxylic acids. Thus, bromination of di-Me 5-methyl-2,3-pyridinedicarboxylate with NBS in the presence of 2,2'-azobisisobutyronitrile in CCl4 gave 57% di-Me 5-(bromomethyl)-2,3-pyridinedicarboxylate which on treatment with amines in EtOH gave I.

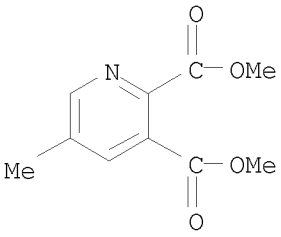
IT 105151-48-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(bromination and sequential reaction of, with amine)

RN 105151-48-2 HCAPLUS

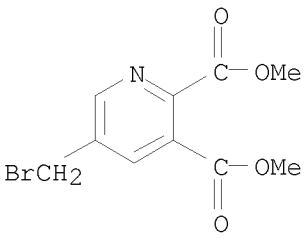
CN 2,3-Pyridinedicarboxylic acid, 5-methyl-, 2,3-diethyl ester (CA INDEX NAME)



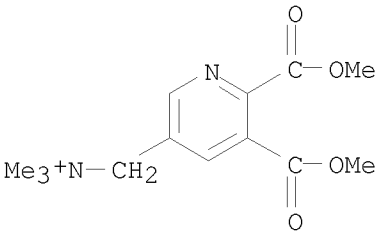
IT 112110-16-4, Dimethyl 5-methyl-2,3-pyridinedicarboxylate
RL: RCT (Reactant); RACT (Reactant or reagent)
(bromination of)
RN 112110-16-4 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 5-methyl-, 2,3-dimethyl ester (CA INDEX NAME)



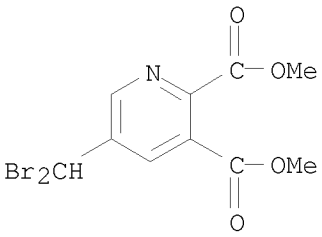
IT 136592-86-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with aromatic amines)
RN 136592-86-4 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 5-(bromomethyl)-, 2,3-dimethyl ester (CA INDEX NAME)



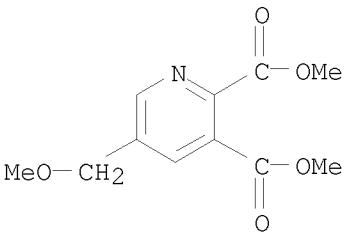
IT 150514-78-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and sapon. of)
RN 150514-78-6 HCAPLUS
CN 3-Pyridinemethanaminium, 5,6-bis(methoxycarbonyl)-N,N,N-trimethyl-, bromide (1:1) (CA INDEX NAME)



IT 136592-85-3P 139123-56-1P 150514-79-7P
150514-80-0P 150514-81-1P 150514-82-2P
150514-83-3P 150514-84-4P 150514-85-5P
150514-86-6P 150514-87-7P 150514-88-8P
154559-13-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 136592-85-3 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 5-(dibromomethyl)-, 2,3-dimethyl ester (CA INDEX NAME)

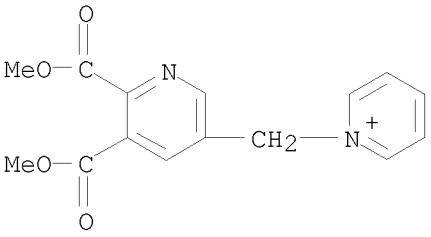


RN 139123-56-1 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 5-(methoxymethyl)-, 2,3-dimethyl ester (CA INDEX NAME)



RN 150514-79-7 HCAPLUS
CN Pyridinium, 1-[[5,6-bis(methoxycarbonyl)-3-pyridinyl]methyl]-, bromide (1:1) (CA INDEX NAME)

Updated Search



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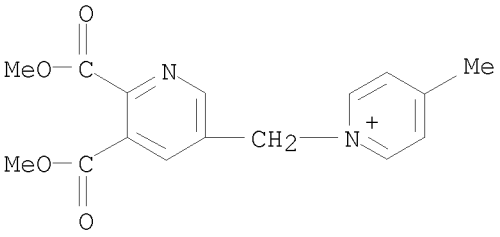
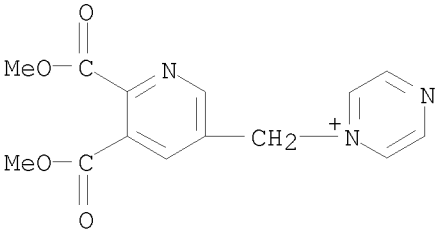
RN 150514-80-0 HCAPLUS
CN Pyridinium, 1-[[5,6-bis(methoxycarbonyl)-3-pyridinyl]methyl]-4-methyl-, bromide (1:1) (CA INDEX NAME)



● Br^-

RN 150514-81-1 HCAPLUS
CN Pyrazinium, 1-[[5,6-bis(methoxycarbonyl)-3-pyridinyl]methyl]-, bromide (1:1) (CA INDEX NAME)



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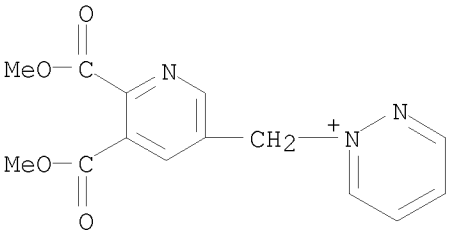
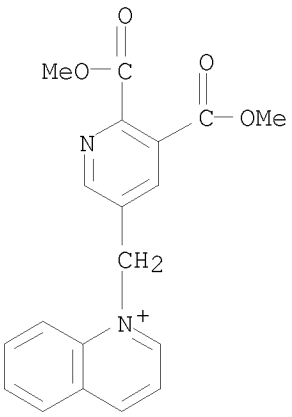
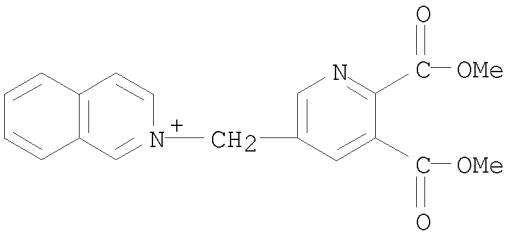
RN 150514-82-2 HCAPLUS
CN Pyridazinium, 1-[[5,6-bis(methoxycarbonyl)-3-pyridinyl]methyl]-, bromide (1:1) (CA INDEX NAME)



RN 150514-83-3 HCAPLUS
CN Quinolinium, 1-[[5,6-bis(methoxycarbonyl)-3-pyridinyl]methyl]-, bromide (1:1) (CA INDEX NAME)

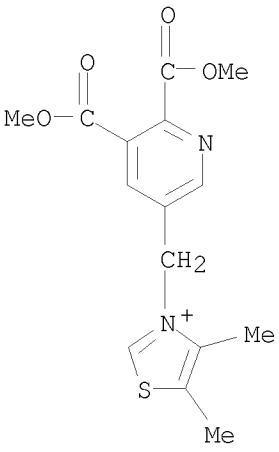


RN 150514-84-4 HCAPLUS
CN Isoquinolinium, 2-[[5,6-bis(methoxycarbonyl)-3-pyridinyl]methyl]-, bromide (1:1) (CA INDEX NAME)



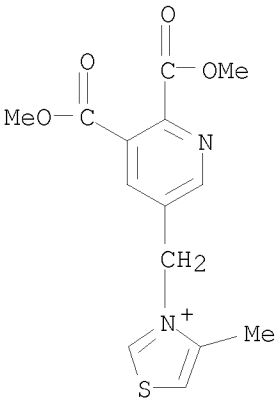
● Br^-

RN 150514-85-5 HCAPLUS
CN Thiazolium, 3-[[5,6-bis(methoxycarbonyl)-3-pyridinyl]methyl]-4,5-dimethyl-, bromide (1:1) (CA INDEX NAME)



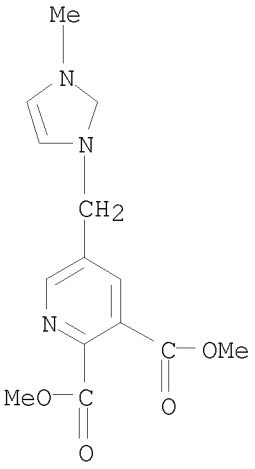
● Br^-

RN 150514-86-6 HCAPLUS
CN Thiazolium, 3-[[5,6-bis(methoxycarbonyl)-3-pyridinyl]methyl]-4-methyl-, bromide (1:1) (CA INDEX NAME)



● Br^-

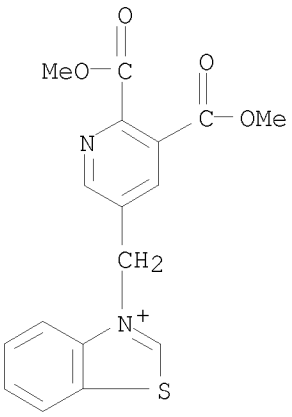
RN 150514-87-7 HCAPLUS
CN 1H-Imidazolium, 3-[[5,6-bis(methoxycarbonyl)-3-pyridinyl]methyl]-1-methyl-, bromide (1:1) (CA INDEX NAME)



● Br^-

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 150514-88-8 HCAPLUS
CN Benzothiazolium, 3-[[5,6-bis(methoxycarbonyl)-3-pyridinyl]methyl]-, bromide (1:1) (CA INDEX NAME)

10563207



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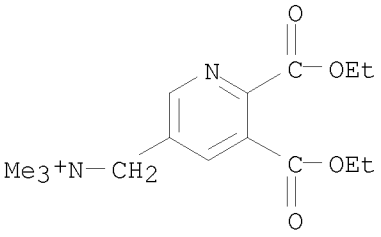
RN 154559-13-4 HCAPLUS
CN 3-Pyridinemethanaminium, 5,6-bis(ethoxycarbonyl)-N,N,N-trimethyl-, bromide (1:1) (CA INDEX NAME)



● Br^-

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1991:583295 HCAPLUS
DOCUMENT NUMBER: 115:183295
ORIGINAL REFERENCE NO.: 115:31313a,31316a
TITLE: Preparation of pyridinedicarboxylates, their conversion to (dioxacycloalkyl)(oxoimidazolidinyl)nicotinates in preparation of herbicides
INVENTOR(S): Finn, John Michael
PATENT ASSIGNEE(S): American Cyanamid Co., USA
SOURCE: Eur. Pat. Appl., 110 pp.
CODEN: EPXXDW

Updated Search

10563207

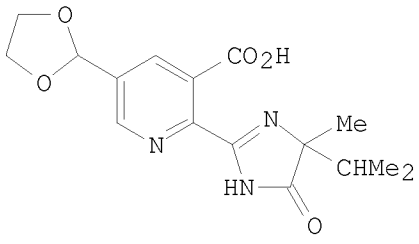
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 434965	A2	19910703	EP 1990-122074	19901119
EP 434965	A3	19920108		
EP 434965	B1	19980520		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
US 5026859	A	19910625	US 1989-457607	19891227
US 5039333	A	19910813	US 1989-457606	19891227
AT 166350	T	19980615	AT 1990-122074	19901119
ES 2116971	T3	19980801	ES 1990-122074	19901119
IL 96429	A	19941229	IL 1990-96429	19901121
IL 109336	A	19950526	IL 1990-109336	19901121
AU 9068383	A	19910704	AU 1990-68383	19901221
AU 637857	B2	19930610		
CA 2033143	A1	19910628	CA 1990-2033143	19901224
CA 2033143	C	20040921		
JP 04120074	A	19920421	JP 1990-413664	19901225
JP 3157173	B2	20010416		
BR 9006596	A	19911001	BR 1990-6596	19901226
US 5225564	A	19930706	US 1991-694708	19910502
US 5239070	A	19930824	US 1991-714548	19910611
US 5283230	A	19940201	US 1993-36120	19930323
US 5344935	A	19940906	US 1993-68363	19930527
US 5405827	A	19950411	US 1993-140776	19931021

PRIORITY APPLN. INFO.:
US 1989-457606 A 19891227
US 1989-457607 A 19891227
IL 1990-96429 A3 19901121
US 1991-694708 A3 19910502
US 1991-714548 A3 19910611
US 1993-36120 A3 19930323

OTHER SOURCE(S): CASREACT 115:183295; MARPAT 115:183295

GI



I

AB Certain 2,3-pyridinedicarboxylates, e.g., di-Me 5-(1,3-dioxolan-2-yl)- or di-Me 5-(1,3-dioxepan-2-yl)-2,3-pyridinedicarboxylate, fused pyridinecarboxylates (no data), and 2-(5-oxo-1H-imidazol-2-yl)-3-pyridinecarboxylates [(5-oxo-1H-imidazol-2-yl)nicotinates] are claimed. Several methods for the preparation of these 2,3-pyridinedicarboxylates and also for the preparation of

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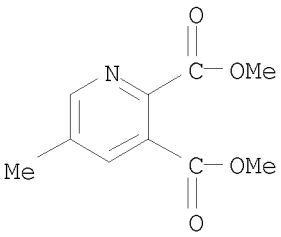
fused pyridinecarboxylate derivs. are claimed. Some of the compds. thus prepared were screened for herbicidal activity. Cyclocondensation reaction of 2-[N-(1-carbamoyl-1,2-dimethylpropyl)carbamoyl]-5-(1,3-dioxolan-2-yl)nicotinic acid gave 5% 2-[4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-(1,3-dioxolan-2-yl)nicotinic acid (I). I was screened as herbicide against Echinochloa crusgalli, Ambrosia artemisiifolia, etc., and against sugarbeets, corn, cotton, and soybeans.

IT 112110-16-4, Dimethyl 5-methyl-2,3-pyridinedicarboxylate
RL: RCT (Reactant); RACT (Reactant or reagent)
(bromination of)

RN 112110-16-4 HCAPLUS

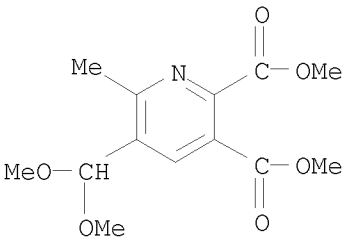
CN 2,3-Pyridinedicarboxylic acid, 5-methyl-, 2,3-dimethyl ester (CA INDEX NAME)



IT 136592-90-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and acetal cleavage of)

RN 136592-90-0 HCAPLUS

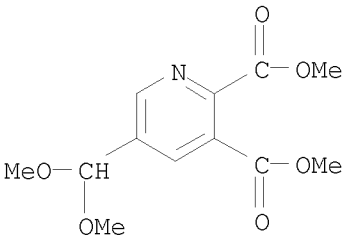
CN 2,3-Pyridinedicarboxylic acid, 5-(dimethoxymethyl)-6-methyl-, 2,3-dimethyl ester (CA INDEX NAME)



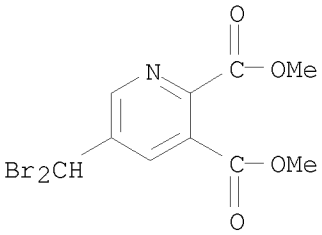
IT 136592-91-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and conversion of, to [oxomethyl(methylethyl)imidazolidinyl]pyrdidinecarboxylic acid or (dioxacycloalkyl)pyridinedicarboxylate or acetal cleavage of)

RN 136592-91-1 HCAPLUS

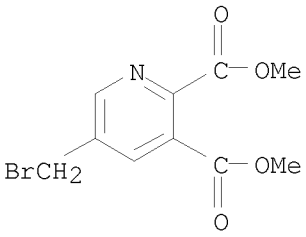
CN 2,3-Pyridinedicarboxylic acid, 5-(dimethoxymethyl)-, 2,3-dimethyl ester (CA INDEX NAME)



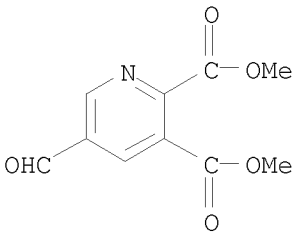
IT 136592-85-3P, Dimethyl 5-(dibromomethyl)-2,3-pyridinedicarboxylate
136592-86-4P, Dimethyl 5-(bromomethyl)-2,3-pyridinedicarboxylate
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and conversion of, to acetal)
RN 136592-85-3 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 5-(dibromomethyl)-, 2,3-dimethyl ester (CA INDEX NAME)



RN 136592-86-4 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 5-(bromomethyl)-, 2,3-dimethyl ester (CA INDEX NAME)



IT 136592-92-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 136592-92-2 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 5-formyl-, 2,3-dimethyl ester (CA INDEX NAME)



L25 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1988:204620 HCAPLUS
DOCUMENT NUMBER: 108:204620
ORIGINAL REFERENCE NO.: 108:33629a,33632a
TITLE: Preparation and testing of arylimidazoles as herbicides
INVENTOR(S): Astles, David Phillip; Flood, Andrew
PATENT ASSIGNEE(S): Shell Internationale Research Maatschappij B. V., Neth.
SOURCE: Brit. UK Pat. Appl., 17 pp.
CODEN: BAXXDU
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2192877	A	19880127	GB 1986-17898	19860722
PRIORITY APPLN. INFO.:			GB 1986-17898	19860722

OTHER SOURCE(S): CASREACT 108:204620; MARPAT 108:204620
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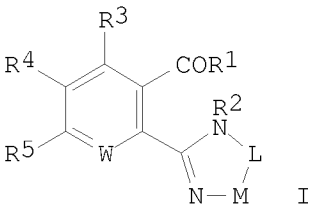
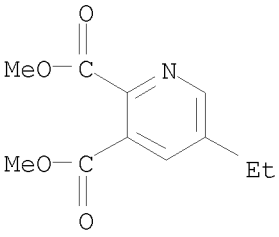


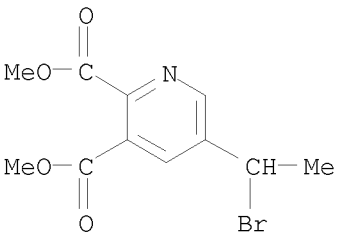
AB The title compds. (I; R1 = OR8, alkyl, alkenyl, alkynyl, cycloalkyl, Ph, furyl, PhCH2; R2 = H, acyl; R1R2 = bond; R3, R5 = H, halo, NO2, cyano, Q; R4 = H, halo, OH, NO2, Q; R6 = alkyl, cycloalkyl; R7 = alkyl, cycloalkyl, alkenyl, Ph, PhCH2; R8 = H, salt-forming cation; W = N, CH; one of L, M = CO, the other = CR6R7; Q= XYZC; X = cyano, thiol, amino, oximino, etc.; Y = H, alkyl, X; Z = H, alkyl) were prepared as herbicides. Di-Me 5-ethylpyridine-2,3-dicarboxylate was successively photobrominated with NBS, condensed with NaSMe, sapond. with aqueous NaOH, refluxed with Ac2O to yield an anhydride, and condensed with 2-amino-2,3-dimethylbutyramide to give 2-[(1-carbonyl-1,2-dimethylpropyl)carbonyl]-[5-[1-

methylthio)ethyl]nicotinic acid, which was cyclized in 3 M NaOH to give 2-(5-isopropyl-5-methyl-4-oxo-2-imidazolin-2-yl)-5-[1-(methylthio)-ethyl]nicotinic acid (II). At 1 kg/ha preemergent, II gave complete control of Echinochloa crusgalli.

IT 112112-37-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(photobromination of)
RN 112112-37-5 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 5-ethyl-, 2,3-dimethyl ester (CA INDEX NAME)



IT 114311-40-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and condensation of, with methanethiol)
RN 114311-40-9 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 5-(1-bromoethyl)-, 2,3-dimethyl ester (CA INDEX NAME)



IT 114311-41-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and sapon. of)
RN 114311-41-0 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 5-[1-(methylthio)ethyl]-, 2,3-dimethyl ester (CA INDEX NAME)

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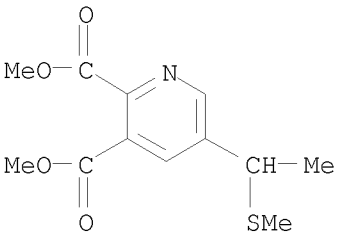

L25 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1988:94556 HCAPLUS
DOCUMENT NUMBER: 108:94556
ORIGINAL REFERENCE NO.: 108:15555a,15558a
TITLE: Preparation of 2-(imidazol-2-yl)pyridine-3-carboxylic acid derivatives as herbicides
INVENTOR(S): Numata, Tatsuo; Hatanaka, Masataka; Watanabe, Junichi; Igai, Takashi; Nawamaki, Tsutomu; Hattori, Kenji
PATENT ASSIGNEE(S): Nissan Chemical Industries, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 18 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62174069	A	19870730	JP 1986-13040	19860124
JP 07000611	B	19950111		
PRIORITY APPLN. INFO.:			JP 1986-13040	19860124

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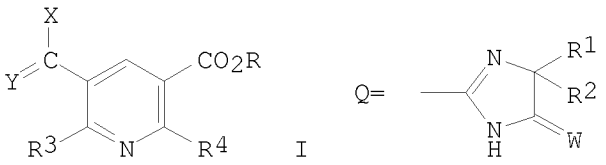

AB The title compds. [I; R4 = Q; W = O, S; X = H, (halo)alkyl, alkylsulfonylmethyl, alkoxymethyl, alkylthiomethyl, PhCH2, (un)substituted Ph or pyridyl; Y = O, S, monosubstituted NH, disubstituted CH2; R = H, (dialkyl)NH, (un)substituted alkyl, (un)substituted alkenyl, alkynyl, (un)substituted cycloalkyl, (un)substituted NH4+, alkali or alkaline earth metal; R1 = alkyl; R2 = (cyclo)alkyl; CR1R2 = (alkyl)cycloalkylene; R3 = H, halo, alkyl(thio), alkoxy, phenoxy, (halo)alkoxy, alkylsulfonyl], useful as herbicides, were prepared A mixture of 2.0 g 5-ethenyl-6-methylpyridine-2,3-dicarboxylic acid anhydride and 1.5 g H2NCMe(CHMe2)CONH2 in pyridine was vigorously stirred overnight to give a crude I [R4 = CONHCMe(CHMe2)CONH2, R = X = H, R3 = Me, Y = CH2] which was treated with aqueous NaOH at 80° for 3 h to give, after acidification

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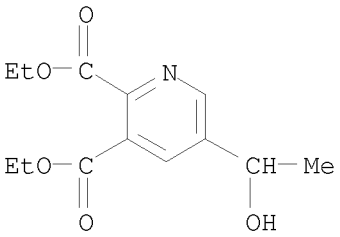
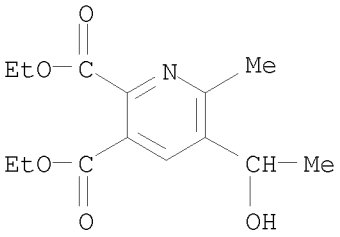
with aqueous HCl, 1.1 g I (R4 = Q, W = O, X = R = H, Y = CH2, R1 = R3 = Me, R2 = CHMe2) (II). Postemergence treatment with II at 0.63 kg/ha completely controlled all 12 weeds tested, e.g., Echinochloa crus-galli showing no damage to soybean.

IT 113051-91-5P 113051-94-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and dehydration of)

RN 113051-91-5 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 5-(1-hydroxyethyl)-, 2,3-diethyl ester (CA INDEX NAME)

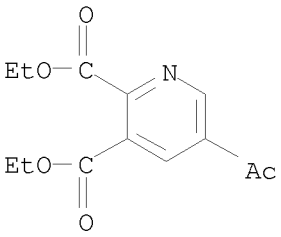


RN 113051-94-8 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 5-(1-hydroxyethyl)-6-methyl-, 2,3-diethyl ester (CA INDEX NAME)



IT 113051-88-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reduction of)

RN 113051-88-0 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 5-acetyl-, 2,3-diethyl ester (CA INDEX NAME)



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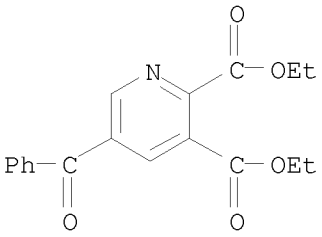
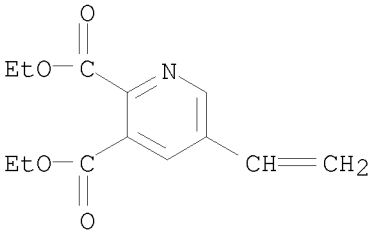
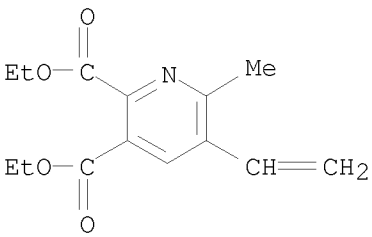
IT 113051-89-1P 113051-90-4P 113051-92-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and sapon. of)
RN 113051-89-1 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 5-benzoyl-, 2,3-diethyl ester (CA INDEX NAME)



RN 113051-90-4 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 5-ethenyl-, 2,3-diethyl ester (CA INDEX NAME)

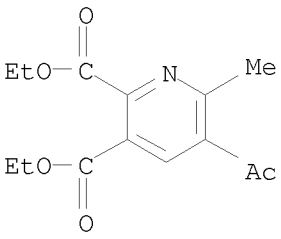


RN 113051-92-6 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 5-ethenyl-6-methyl-, 2,3-diethyl ester (CA INDEX NAME)

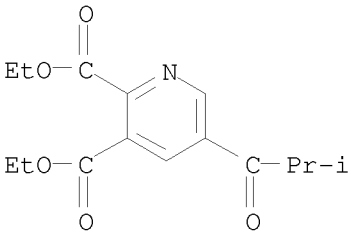


IT 113051-93-7P 113051-95-9P 113051-99-3P
113052-00-9P 113052-01-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as intermediate for herbicidal imidazolylpyridine derivative)
RN 113051-93-7 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 5-acetyl-6-methyl-, 2,3-diethyl ester (CA

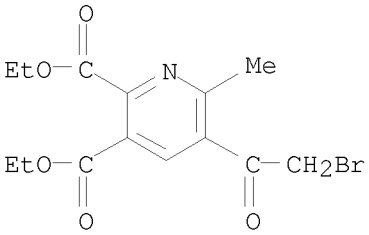
INDEX NAME)



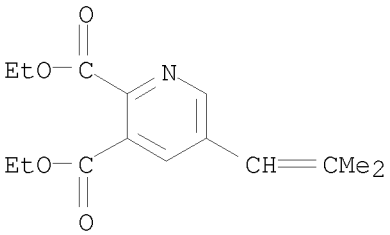
RN 113051-95-9 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 5-(2-methyl-1-oxopropyl)-, 2,3-diethyl ester (CA INDEX NAME)



RN 113051-99-3 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 5-(2-bromoacetyl)-6-methyl-, 2,3-diethyl ester (CA INDEX NAME)



RN 113052-00-9 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 5-(2-methyl-1-propen-1-yl)-, 2,3-diethyl ester (CA INDEX NAME)



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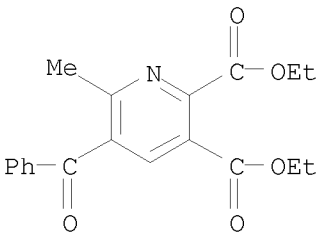
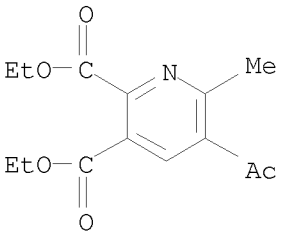
RN 113052-01-0 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 5-benzoyl-6-methyl-, 2,3-diethyl ester (CA INDEX NAME)



IT 113051-93-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(reduction of)
RN 113051-93-7 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 5-acetyl-6-methyl-, 2,3-diethyl ester (CA INDEX NAME)



L25 ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1987:213943 HCAPLUS
DOCUMENT NUMBER: 106:213943
ORIGINAL REFERENCE NO.: 106:34721a,34724a
TITLE: Herbicidal 2-(2-imidazolin-2-yl)pyridine derivatives
INVENTOR(S): Los, Marinus
PATENT ASSIGNEE(S): American Cyanamid Co., USA
SOURCE: Brit. UK Pat. Appl., 361 pp.
CODEN: BAXXDU
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2174395	A	19861105	GB 1986-11303	19860509

PRIORITY APPLN. INFO.: GB 1986-11303 19860509
OTHER SOURCE(S): CASREACT 106:213943; MARPAT 106:213943
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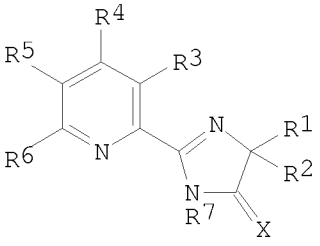

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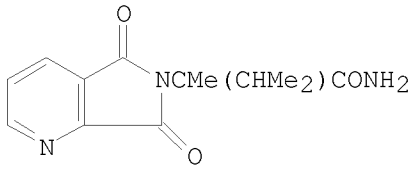


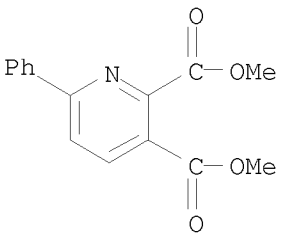
II

AB The title compds. [I; R1 = C1-4 alkyl; R2 = C1-4 alkyl, C3-6 cycloalkyl; R1R2 = (Me-substituted) C2-5 alkylene; R3 = (un)modified CO2H, acyl, HOCH2, carboxyalkyl, oxazolidinyl, (substituted) alkenyl, alkynyl, cycloalkyl, etc; R4 = H, halo, OH, Me; R5, R6 = H, halo, (substituted) C1-6 alkyl, hydroxyalkyl, C1-6 alkoxy, C1-4 alkylthio, PhO, NO2, cyano, amino; R5R6 = atoms to complete a fused, (un)subst. aromatic ring; R7 = H, (substituted) acyl, sulfonyl; X = O, S] and related compds. were prepared as herbicides. Thus, pyrrolopyridineacetamide II was treated successively with diazabicycloundcene and MeOH to give I (R1 = Me, R2 = Me2CH, R3 = CO2Me, R4-R7 = H, X = O). This was sapond. and treated with Et3N to give I.Et3N (R1 = Me, R2 = Me2CH, R3 = CO2H, R4-R7 = H, X = O) (III). At 0.032 kg/ha III gave a complete kill of quackgrass.

IT 39632-98-9P 92487-60-0P 92487-61-1P
92487-62-2P 92487-63-3P 92487-64-4P
107504-14-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and sapon. of)

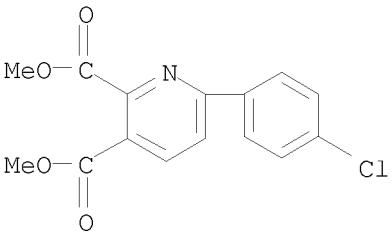
RN 39632-98-9 HCAPLUS

CN 2,3-Pyridinedicarboxylic acid, 6-phenyl-, 2,3-dimethyl ester (CA INDEX NAME)



RN 92487-60-0 HCAPLUS

CN 2,3-Pyridinedicarboxylic acid, 6-(4-chlorophenyl)-, 2,3-dimethyl ester (CA INDEX NAME)



RN 92487-61-1 HCAPLUS
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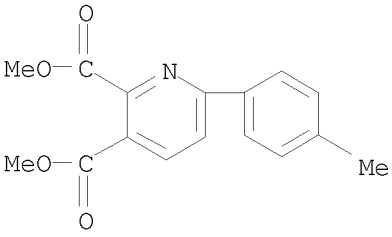
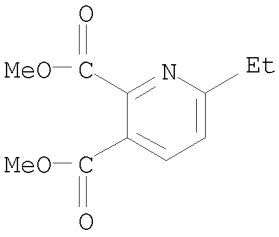
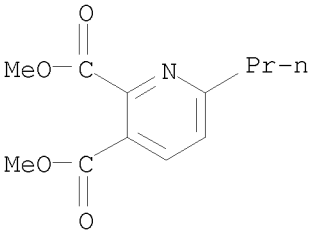


RN 92487-62-2 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 6-ethyl-, 2,3-dimethyl ester (CA INDEX NAME)



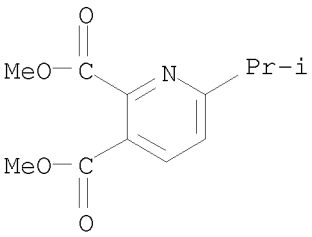
RN 92487-63-3 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 6-propyl-, 2,3-dimethyl ester (CA INDEX NAME)



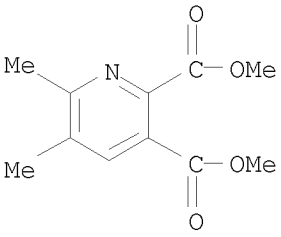
RN 92487-64-4 HCAPLUS

Updated Search

CN 2,3-Pyridinedicarboxylic acid, 6-(1-methylethyl)-, 2,3-dimethyl ester (CA INDEX NAME)



RN 107504-14-3 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 5,6-dimethyl-, 2,3-dimethyl ester (CA INDEX NAME)



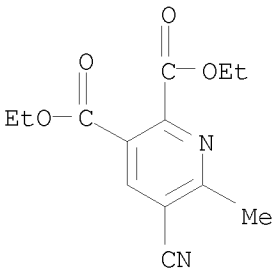
L25 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1953:778 HCAPLUS
DOCUMENT NUMBER: 47:778
ORIGINAL REFERENCE NO.: 47:134d-i,135a-e
TITLE: Pyridine syntheses. I. Some reactions of "ene amines" with 1, 3-dicarbonyl derivatives
AUTHOR(S): Bottorff, Edmond M.; Jones, Reuben G.; Kornfeld, Edmund C.; Mann, Marjorie J.
CORPORATE SOURCE: Lilly Research Labs., Indianapolis, IN
SOURCE: Journal of the American Chemical Society (1951), 73, 4380-3
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 47:778
AB cf. C.A. 46, 983b. Condensations of ene amines, MeC(NH2):CHCN (I), MeC(NH2):CHCO2Et (II), MeC:NHCH2COMe (III), with EtOCH:C(CO2Et)COCO2Et (IV), EtCOC(:CHOEt)COCO2Et (V), and related compds. were carried out in an attempt to prepare 2,3,4,5-tetrasubstituted pyridines suitable for conversion to vitamin B6. Instead of the desired compds., the pyridines obtained were invariably substituted in the 2, 3, 5, 6-positions. IV (89 g.) and 62 g. II heated several hrs. on the steam bath and the product distilled in vacuo yielded 26 g. di-Et 2, 6-dimethyl-3, 5-pyridinedicarboxylate (VI); the residue on extraction with hot petr. ether (60-8°) left 2.5 g. white crystals, probably 3-acetyl-5-carbethoxy-6-methyl-2-pyridone (VII), m. 210-13°; the

cooled petr. ether filtrate gave a solid (10.5 g.), m. 102.5-3.5°, probably EtO2CC(Ac): CHNHC(:CMe2)CO2Et (VIII). The same experiment with 13 g. II and 16 g. HOCH:C(CO2Et)COCO2Et (IX) let stand 12 days at room temperature yielded 7.5 g. VI and 6.7 g. VIII. VI (35 g.) and 18 g. KOH refluxed 45 min. in 500 cc. absolute EtOH, filtered, the filtrate evaporated, the dried residue (24 g.) and 47 g. CaO in 40 cc. water distilled with a free flame, the distillate extracted with Et2O, the Et2O evaporated, and the residue distilled yielded 2, 6-lutidine, b. 139-41°; picrate, m. 100.5-102°. The di-K salt of the free acid of VI and 30 g. KMnO4 heated 4 hrs. on the steam bath in 500 cc. water, the mixture filtered, the filtrate evaporated to dryness in vacuo, and the residue let stand 24 hrs. in 300 cc. MeOH saturated with HCl yielded tetra-Me 2, 3, 5, 6-pyridinetetracarboxylate (X), m. 118-19° (from Et2O-Me2CO). IV (49 g.) in 50 cc. dry Et2O treated with 20 g. I, the mixture heated 30 min. on the steam bath, the liquid in 100 cc. Et2O washed with dilute Na2CO3 and water and dried, the Et2O evaporated, and the residue distilled yielded 36 g. di-Et 5-cyano-6-methyl-2,3-pyridinedicarboxylate (XI), b0.8 150°, b1 155°, nD25 1.5123, d2525 1.1708. Similar expts. in AcOH and absolute EtOH yielded 72 and 70%, resp., XI, b0.4 145-6°. XI (6.2 g.) and 4 g. NaOH refluxed 3 hrs. in 25 cc. water and 10 cc. EtOH and the solution digested with 200 cc. EtOH yielded 6.0 g. Na salt (XII) of 6-methyl-2, 3, 5-pyridinetricarboxylic acid. XII (5.8 g.) in 150 cc. water treated with 6.32 g. KMnO4 in 100 cc. hot water, the solution heated overnight on the steam bath, filtered, evaporated to dryness, and esterified with MeOH and HCl yielded 2 g. X, m. 118-19°. XII (3 g.) in 100 cc. MeOH saturated with HCl let stand 24 hrs. yielded the tri-Me ester (XIII), m. 78.5-9.5° (from Et2O). XII yielded the tris(p-bromophenacyl) ester, m. 190-2° (from dioxane-EtOH-water). IV (32 g.) in 25 cc. Et2O treated with 18 g. II, the mixture heated 30 min. on the steam bath, and distilled yielded 36 g. tri-Et 6-methyl-2, 3, 5-pyridinetricarboxylate (XIV), b0.5 160°, nD25 1.500, d2525 1.168. XIV sapond. with NaOH and esterified with MeOH and HCl yielded XIII, m. 78.5-9.5°. III and IV yielded 65-70% di-Et 5-acetyl-6-methyl-2,3-pyridinedicarboxylate (XV), b0.5 165-7°, m. 62-3°. XV (1 g.) moistened with alc., treated with 3 cc. 12 N NaOH, the mixture warmed a short time, diluted with 10 cc. water, and acidified with HCl yielded the free acid (XVI), m. 165-6° (decomposition) (from water). XVI (1 g.) treated with 25 cc. cold 5 N NaOH containing 1 g. Cl, the mixture let stand 1 hr., warmed 1 hr. on the steam bath, evaporated to dryness in vacuo, and the residue treated with MeOH containing HCl yielded XIII. IV (24.5 g.) in 100 cc. Et2O treated with 18 g. MeC(NH2):CHCONHPh, the solution let stand overnight, diluted with 200 cc. petr. ether, and chilled yielded 23 g. di-Et 5-carboxanilido-6-methyl-2,3-pyridinedicarboxylate, m. 121-2° (from C6H6-petr. ether). V (21.3 g.) and 10 g. I in 50 cc. Et2O yielded 11 g. Et 3-acetyl-5-cyano-6-methyl-2-pyridinecarboxylate (XVII), b0.8 132-7°, m. 94.5-95° (from Et2O-petr. ether). XVII shaken with 5 N NaOH and the solution acidified with HCl yielded the free acid (XVIII), m. 154-6° (decomposition) (from water). XVIII treated with NaOCl, hydrolyzed, and esterified yielded XIII. V (21.4 g.) and 13 g. II yielded 23 g. di-Et 3-acetyl-6-methyl-2,5-pyridinedicarboxylate (XIX), b2.5 180-5° m. 67-8°. XIX on sapon. yielded the free acid (XX), m. 210-13° (decomposition) (from water). XX on treatment with NaOCl yielded XIII. V (125 g.) and 58.5 g. III in 275 cc. Et2O let stand overnight, the solid filtered off, heated to boiling in 100

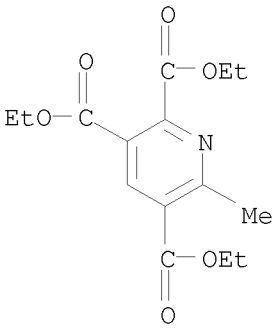
cc. EtOAc, and chilled yielded 37.5g. Et β-[(1-methyl-3-oxo-1-butenylamino)methylene]-α, γ-dioxo-valerate (presumably), m. 164-5° (from EtOAc and C6H6petr. ether). The combined filtrates evaporated to dryness in vacuo, the residue in warm Et2O diluted with petr. ether until cloudy and chilled yielded 38.5 g. Et 3, 5-diacetyl-6-methyl-2-pyridinecarboxylate, m. 96-7° (from Et2O-petr. ether); free acid (XXI) m. 139-40° (decomposition) (from water). XXI on oxidation yielded XIII. CF3CO(:CHOEt)CO2Et (18 g.) and 11 g. II yielded 19 g. di-Et 2-methyl-6-trifluoromethyl-3, 5-pyridinedicarboxylate, b1 115-17°, nD25 1.4647, d2525 1.261.

IT 408539-34-4P 412337-02-1P
RL: SPN (Synthetic preparation); PRP (Properties); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(Pyridine syntheses. I. Some reactions of "ene amines" with 1, 3-dicarbonyl derivatives)

RN 408539-34-4 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 5-cyano-6-methyl-, 2,3-diethyl ester (CA INDEX NAME)



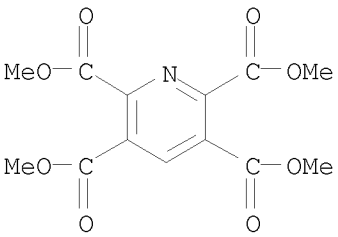
RN 412337-02-1 HCAPLUS
CN 2,3,5-Pyridinetricarboxylic acid, 6-methyl-, 2,3,5-triethyl ester (CA INDEX NAME)



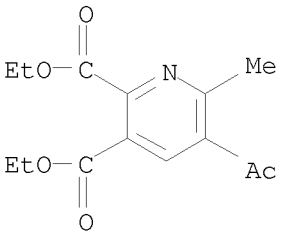
IT 14660-47-0P, 2,3,5,6-Pyridinetetracarboxylic acid, tetramethyl ester 113051-93-7P, Quinolinic acid, 5-acetyl-6-methyl-, diethyl ester 855941-06-9P, Acetophenone, 4'-bromo-2-hydroxy-, triester with 6-methyl-2,3,5-pyridinetricarboxylic acid 858474-73-4P,

Quinolinic acid, 6-methyl-5-phenylcarbamoyl-, diethyl ester
RL: PREP (Preparation)
(preparation of)

RN 14660-47-0 HCAPLUS
CN 2,3,5,6-Pyridinetetracarboxylic acid, 2,3,5,6-tetramethyl ester (CA INDEX NAME)

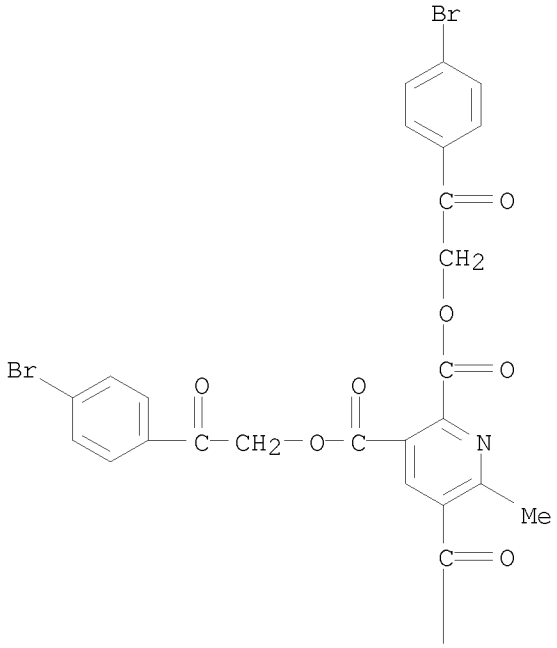


RN 113051-93-7 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 5-acetyl-6-methyl-, 2,3-diethyl ester (CA INDEX NAME)

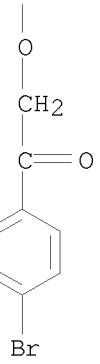


RN 855941-06-9 HCAPLUS
CN 2,3,5-Pyridinetricarboxylic acid, 6-methyl-, 2,3,5-tris[2-(4-bromophenyl)-2-oxoethyl] ester (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



RN 858474-73-4 HCAPLUS
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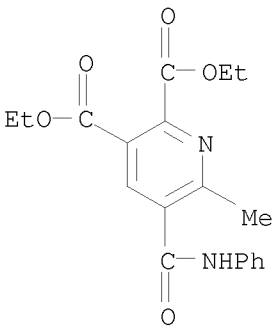
10563207



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Updated Search